

# **IMPROVED OPENING OR WINDOW APPLICABLE IN ACCESSES TO INCUBATORS FOR NEWBORN BABIES**

## **SPECIFICATIONS**

### **Object of the invention**

The present specification refers to a utility model comprising an improved opening or window applied to accesses into incubators for babies, with the evident purpose of permitting it to be located inside the perimeter area of access to an incubator for newborns; it comprises a coupling frame, a means for fixing the door and the window itself, which is coupled to the internal area of the bearing frame thereof, together with the hinge and spring that strengthen its automatic opening.

### **Field of the invention**

This invention is applicable to the industry engaged in the manufacture of auxiliary materials for the medical and surgical industry.

### **Description of the invention**

The improved opening or window applicable to the accesses into incubators for newborn babies proposed by the invention constitutes by itself an evident novelty in the involved field, since starting from it a hole is provided that forms a bearing set for the opening as such, where a profile or section is coupled thereto,

which has a suitably located actuating spring destined to strengthen the automatic opening when the spring is released of the pressure exerted by a pawl provided in the opposing area.

More specifically, the improved window applicable to accesses into the newborn incubators is made up by a profile where the window is fastened to the incubator housing wall and is provided with a hinge, a closing pawl and transparent door, through which the inside of the incubator can be seen without any impediment whatsoever.

In brief, the invention is made up by a unit of two complementary pieces; one of them forms the profile, which is fastened to the housing wall, as already stated, and includes the female portion of the hinge and the pawl destined to close the transparent door ; while the other piece coupled to the profile forms the opening that incorporates the hinge male portion and a projection intended to be fixed in the profile of the pawl and consequently to prevent that the door or opening remains open when it should be closed, although it permits an easy displacement of the fastening or fixing area whenever it is necessary to open the door. This maneuver or opening operation will be strengthened by the action of a spring being set on the axis of the hinge located in a central opening of a lug

struck from the central lateral area of the opening, specifically the zone where it is fixed.

It should specifically be stated that the profile which carries the door or opening inside the incubator is placed under pressure in the window or access hole to said incubator, being specifically located in its housing and it juts out of it through a hole or perforation adjacent to the opening pawl; when the pawl is pressed, it is displaced inside the housing and consequently, the projection in the opening will slide along the inclined plane of the pawl, being in continuous contact therewith and it released and exert action at the same time on the spring being accommodated in the hinge, thereby forcing the immediate opening of the door.

The closing will naturally take place by the manual displacement of the opening or door up to its final travel and lets in the projection located in the opening, which forms an integral part thereof, until it makes contact with the pawl inclined profile or section, being displaced over and retained by it.

#### Description of the figures

In order to supplement the above description and to contribute to a better understanding of the characteristics of the invention, sheets of drawings are enclosed to the present specifications, which forms part thereof, where the following is represented by way of illustration but not as a restriction:

Figure number 1 shows a plant view of the improved opening or window applicable to the accesses into the incubator for newborn babies being the object of the invention.

Figure number 2 corresponds to an elevation side view, in cross-section, of the description in Figure 1; this schematic view shows the window bear frame with which it forms a unitary set, as well as the closing arrangement provided by the pawl in collaboration with a projection that juts out from the window.

#### Preferred embodiment of the invention

As shown in Figure 1, it is appreciated that the improved opening or window applicable the accesses into the newborn incubators is made up by an window (1) which acts as a door located on a profile or section (2), which is placed under pressure on the window existing in the housing (11) of the incubator and a pawl (9) will appear through an adjacent hole or perforation also located in the housing (12), which once it is pressed will release by means of the lug (8) through a displacement along its inclined plane (10); as a result, the lug (8) will be separated from the pawl (9) and permit the automatic opening of the window or opening (1) by means of the action of a spring (5) provided on the axis of hinge (3), being placed in an area formed by an opening (7), thus strengthening the practically automatic opening of said hole or door (1).

It should be pointed out that in its female zone, the hinge is located in the profile or section (2) made up by two seats (6) into which the ends of axis (3) are introduced.

Finally, it is necessary to indicate that in the lower zone of the lateral deformation of opening (1), from which lug (8) is struck for its fastening to the inclined plane (10) of the pawl (9); the incorporation is envisaged of a joint destined to receive a magnetic lock.

As already mentioned in the invention, when a pressure is exerted on pawl (9), the window (1) is released and in order to close it, a manual displacement of the window (1) takes place, until it reaches the end of its travel and overcomes the deformation under which the inclined plane (10) is affected by the jutting out lug (8), whereby the opening pieces and pawl (9) are consequently joined and the access into the incubator is then closed.

It is not deemed necessary to make the above description more extensive, so that any person skilled in the matter understands the scope of the invention and the advantages derived therefrom.

The materials, shape, size and arrangement of the elements involved will be susceptible to variation, provided this does not mean an alteration of the essential features of the invention.

The terms in which this specification has been described should always be considered to have a broad and not a restrictive character.

## **CLAIMS**

1. An improved opening applicable to the accesses into incubators for newborn babies, of the type intended to be located over a housing (11) of an incubator provided with a hole or perforation and a supplementary opening which is substantially aligned to the lower part (12), CHARACTERIZED in that it is made up by a door or opening (1) made of a transparent plastic material and located over a profile (2) fastened under pressure over the larger size opening found in the incubator housing (11) wherein the door or opening (1) and the profile (2) are joined by a hinge formed by two seats (6) in said profile (1) and a transversal axis (3) which is coupled to a lug struck from a central lateral area of opening (1), and is provided with an opening (7) through which access is made to a spring (5) located over the profile (3) and in the opposite side of the opening or door (1) has a projection or lug (8) having a joint made of a flexible plastic material in its internal side.

2. An improved opening applicable to the accesses into incubators for newborn babies, as described in Claim 1, CHARACTERIZED in that the emerging lug (8) is seated on a pawl (9) provided with a lateral projection which has an inclined plane (10) in the lower zone.

3. An improved opening applicable to the accesses into incubators for newborn babies, according to the preceding claims, CHARACTERIZED in that the pawl (9) can be displaced toward the incubator internal part and causes the release of the lug (8) by sliding the latter over the inclined plane (10) and opens the door (1) through the action of the spring (5).